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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,777	01/16/2002	Raymond T. Hsu	020104	1527

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QUALCOMM INCORPORATED
5775 MOREHOUSE DR.
SAN DIEGO, CA 92121

EXAMINER

SHAND, ROBERTA A

ART UNIT	PAPER NUMBER
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2616

DATE MAILED: 09/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

10

Office Action Summary	Application No. 10/051,777	Applicant(s) HSU, RAYMOND T.	
	Examiner Roberta A. Shand	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2006.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basilier (U.S. 2003/0073453 A1) in view of Le (U.S. 2002/0018010 A1).

3. Regarding claim 1, Basilier teaches (fig. 1) a wireless communications system supporting a broadcast service, method comprising: receiving an IP multicast address and a service option parameter for the broadcast service from a base station during establishment of a user traffic channel between a PDSN and a base station (fig. 2); receiving a broadcast packet flow sent via an IP network page 2, paragraph 17); mapping the broadcast packet flow identified by an address in the packet header to the user traffic channel using the IP multicast address (page 3, paragraphs 18-19).

4. Basilier does not teach using the service option parameter to determine header compression and compressing the header of the broadcast packet.

5. Le teaches (page 11, paragraphs 86-89) using the service option parameter (context information (SO and FO)) to determine header compression and compressing the header of the broadcast packet. It would have been obvious to one of ordinary skill in the art to adapt this to Basilier's system to accommodate more information being transmitted.

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6. Regarding claims 2, 12 and 22, Basilier teaches (abstract) a content server.
7. Regarding claims 3 and 13, Basilier teaches (abstract) IP data packets
8. Regarding claims 4, 14 and 23, Basilier teaches (fig. 1) the content server serves the packet flow to the PDSN via the IP network.
9. Regarding claims 5, 15, 24 and 28, Basilier teaches (page 1, paragraph 2) video data.
10. Regarding claims 6, 16, 25 and 29, Basilier teaches (page 1, paragraph 2) audio data.
11. Regarding claims 7, 17 and 30, Basilier teaches (page 5, paragraph 28) A10 connection.
12. Regarding claims 8 and 18, Basilier teaches (figs. 2-3) the IP multicast address and the service option parameter are received over a signaling connection between the PDSN and the base station.

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13. Regarding claims 9, 10, 19, 20, 26, 31 and 32, as for A11, it would have been obvious to one of ordinary skill in the art to adapt to both Basilier and Le as it is well known in the art.

14. Regarding claim 11, Basilier teaches (fig. 1) a packet data receiving node to implement a method, comprising: receiving flow treatment and mapping data from a base station during establishment of a user traffic channel with the base station (fig. 2); receiving a broadcast packet flow page 2, paragraph 17); and mapping the broadcast packet flow identified by an address in the packet header to the user traffic channel using the IP multicast address (page 3, paragraphs 18-19).

15. Basilier does not teach using the service option parameter to determine header compression and compressing the header of the broadcast packet.

16. Le teaches (page 11, paragraphs 86-89) using the service option parameter to determine header compression and compressing the header of the broadcast packet. It would have been obvious to one of ordinary skill in the art to adapt this to Basilier's system to accommodate more information being transmitted.

17. Regarding claim 21, Basilier teaches (fig. 1) a PDSN for receiving IP packets to a base station, comprising: an A10 connection for communicating user traffic to the base station (page 5, paragraph 28); and IP network connection for connecting to the IP network (fig. 1); flow treatment and mapping data comprising an IP multicast address and a service option parameter, wherein the PDSN receives the data from the base station in establishing the A10 connection, and store the data (fig. 2); means for mapping the IP

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packets to the A10 connection based on a multicast address of the IP packets and using the flow data (page 3, paragraphs 18-19).

18. Basilier does not teach means for compressing the IP header based on the service option parameter.

19. Le teaches (page 11, paragraphs 86-89) means for compressing the IP header based on the service option parameter (context information (SO and FO)). It would have been obvious to one of ordinary skill in the art to adapt this to Basilier's system to accommodate more information being transmitted.

20. As for A11, it would have been obvious to one of ordinary skill in the art to adapt to both Basilier and Le, as it is well known in the art.

21. Regarding claim 27, Basilier teaches (fig. 1) a base station configured to implement a method, comprising: configuring flow data comprising an IP multicast address and a service option parameter (fig. 2); establishing a signaling connection with a PDSN; requesting a user traffic channel with the PDSN through the signaling connection; sending the data to the PDSN during user traffic channel setup; establishing the user traffic channel with the PDSN; receiving IP packets on the user traffic channel, wherein the IP packets are addressed to the IP multicast address (page 3, paragraphs 18-19).

22. Basilier does not teach compressing the header of the broadcast packet.

23. Le teaches (page 11, paragraphs 86-89) compressing the header of the broadcast packet. It would have been obvious to one of ordinary skill in the art to adapt this to Basilier's system to accommodate more information being transmitted.

24. Regarding claim 33, Basilier teaches (fig. 1) a wireless communications apparatus, comprising: means for receiving an IP multicast address and a service option parameter for the broadcast service from a base station during establishment of a user traffic channel between a PDSN and a base station (fig. 2); means for receiving a broadcast packet flow sent via an IP network (page 2, paragraph 17); means for mapping the broadcast packet flow identified by an address in the packet header to the user traffic channel using the IP multicast address (page 3, paragraphs 18-19).

25. Basilier does not teach means for determining header compression and means for compressing the header of the broadcast packet.

26. Le teaches (page 11, paragraphs 86-89) means for determining header compression and means for compressing the header of the broadcast packet. It would have been obvious to one of ordinary skill in the art to adapt this to Basilier's system to accommodate more information being transmitted.

Response to Arguments

27. Applicant's arguments filed April 12, 2006 have been fully considered but they are not persuasive. Applicant argues that Le does not teach using the service option parameter to determine the header compression. Le teaches (paragraph 86) using compression context information (SO and FO), which reads on Applicant's service option parameter, to compress and decompress the header.

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Conclusion

28. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

29. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

30. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Shand whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

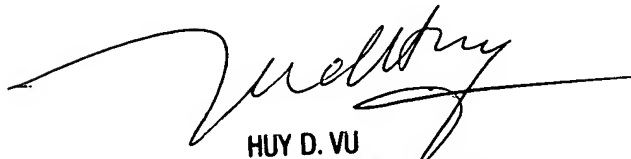
31. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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32. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Roberta A Shand
Examiner
Art Unit 2665



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